

Message

From: Rich Humann [rhumann@h2m.com]
Sent: 7/2/2015 9:58:46 PM
To: 'Harrington, Jim (DEC)' [jim.harrington@dec.ny.gov]; Stan Carey [scarey@massapequawater.com]; Mike Boufis [mboufis@bethpagewater.com]; Paul J. Granger [pgranger@H2M.com]; Garbarini, Doug [Garbarini.Doug@epa.gov]; Gary E. Loesch [gloesch@h2m.com]; Mannino, Pietro [Mannino.Pietro@epa.gov]; fkoch@sflower.com
CC: Schick, Robert (DEC) [robert.schick@dec.ny.gov]; Ryan, Michael (DEC) [michael.ryan@dec.ny.gov]; Swartwout, John (DEC) [john.swartwout@dec.ny.gov]; Scharf, Steven (DEC) [steven.scharf@dec.ny.gov]; Evans, Daniel (DEC) [daniel.evans@dec.ny.gov]; Wilkie, Henry (DEC) [henry.wilkie@dec.ny.gov]; Papura, Thomas R (DEC) [thomas.papura@dec.ny.gov]; Rice, Timothy B (DEC) [timothy.rice@dec.ny.gov]
Subject: RE: Radium sampling in the vicinity of the Grumman Plume
Attachments: Rad sampling map mark-up.pdf

Jim,

Attached please find a copy of a map which shows the sample locations proposed in your summary. Based on the locations (number and proximity) chosen for the sampling, the proposal really shouldn't be termed "comprehensive". There are 11 locations selected. 3 are public supply wells that have already been sampled for Ra 226+228: HKWD Well 9-1 0.62 pCi/l in 2013, HKWD Well 11-1 0.96 pCi/l in 2013, BPWD Well 7 1.74 pCi/l in 2013; and Ur: BPWD Well 7 0.07 ug/l in 2012. Of the remaining locations, only Re 108 is in a known high plume concentration area downgradient of the site. To be meaningful, additional locations need to be considered north of Hempstead Turnpike in and around Stewart Avenue. We are especially interested in location downgradient of the Community Park.

We hope that since the DEC is going through the effort to conduct the sampling program, that it will be as comprehensive as possible, furthering the understanding of the overall water quality of the groundwater plume.

Thanks

Rich

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From: Harrington, Jim (DEC) [mailto:jim.harrington@dec.ny.gov]
Sent: Wednesday, June 24, 2015 3:20 PM
To: Stan Carey; Mike Boufis; Paul J. Granger; Garbarini, Doug; Gary E. Loesch; Rich Humann; Mannino, Pietro; fkoch@sflower.com
Cc: Schick, Robert (DEC); Ryan, Michael (DEC); Swartwout, John (DEC); Scharf, Steven (DEC); Evans, Daniel (DEC); Wilkie, Henry (DEC); Papura, Thomas R (DEC); Rice, Timothy B (DEC)
Subject: Radium sampling in the vicinity of the Grumman Plume

As discussed at Monday's quarterly meeting, DEC is proposing to undertake a comprehensive sampling of radium and other related compounds upgradient, around and within the Grumman plume. Isotopic analytical methods will be employed rather than gross alpha and gross beta as they are considered screening methods. Shown below are the specific analytical methods. Attached is a proposed list of wells to be sampled. Please take a look at the list of wells and identify any that are problematic (due to dedicated sampling pumps, availability etc). If you are recommending that a particular well not be sampled, please suggest an alternative. If you are the owner of the well and would prefer to

perform the sampling yourself, this is acceptable but DEC will need to be present and will take possession of the sample for analysis. Samples will be sent to our laboratory contactor, Pace Analytical Services for analysis. Split samples will be provided to whoever wants them but you must supply your own sample container (1 gallon). For wells that are owned by NG or Navy, existing oversight agreements provide access. We will have to secure access agreements for the others. We hope to conduct this sampling sometime this summer. If you have comments on either the approach or the proposed wells, please send them to me by July 15, 2015. Thanks Jim H

Analytical Methods

- Isotopic Uranium : DOE HASL-300 U-02 RL = 0.5 pCi/L
- Isotopic Thorium : DOE HASL-300 Th-01 RL = 0.5 pCi/L
- Radium-226 : EPA Method 903.1 RL = 1.0 pCi/L
- Radium-228: EPA Method 904.0 RL = 1.0 pCi/L

James B Harrington, PE
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Please note my new email address

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